INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019280

Int.Cl ⁷ C23C2/28, C23C2/06, C22C38/00, C22C38/06, C22C38/58, C21D9/46			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ C23C2/00-C23C2/40, C22C38/00, C22C38/06, C22C38/58, C21D9/46			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENT	IS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ag	ppropriate, of the relevant passages	Relevant to claim No.
Х	JP 2002-47547 A (Kawasaki Steel Corp.), 15 February, 2002 (15.02.02), Examples; table 1; column 8, lines 24 to 28 (Family: none)		1,3
X .	JP 2001-303178 A (Sumitomo M Ltd.), 31 October, 2001 (31.10.01), Examples; table 1; column 14, (Family: none)		2,4
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		See patent family annex. "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search 29 March, 2005 (29.03.05)		Date of mailing of the international search report 19 April, 2005 (19.04.05)	
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Facsimile No. Telephone No. Telephone No.			